

Your Name: _____

Assigned reading for this lecture:

- Review the class NP as well as NP completeness reductions in the book. Skip the proof of the Cook-Levin Theorem (Theorem 7.37) for now, we will cover it next time. Read the reduction from 3SAT to Clique, (Theorem 7.32) and 3SAT to Vertex-Cover (Theorem 7.44).

1. Consider the reduction from 3SAT to Clique (Page . Given a 3SAT instance with k clauses, how many vertices are in the constructed graph G ?
2. Consider the reduction from 3SAT to Clique (Page 302). Given a 3SAT instance with k clauses, how many edges are in the constructed graph G ?